

235-00: Case Narrative

Case Vehicle (A): 1998 Subaru	Vehicle (B): 1994 Toyota
Type: Legacy Outback, 4-door station wagon	Type: Camry, 4-door sedan
Driver: 34-year-old male	Driver: 27-year-old female
CDC: 12-FYEW-3, 00-RDAO-3	CDC: 12-FYEW-3

SITUATION

[1](#) On a clear night, case vehicle (A) was traveling north at a driver-estimated speed of 45 mph (72 kph) in the northbound lane of a two-lane asphalt road. The road surface was dry, it was dark and unlighted, and the speed limit was 45 mph (72 kph). Vehicle (B) was traveling south at an unknown speed in the southbound lane of the two-lane road. The driver of case vehicle (A) reportedly fell asleep and the vehicle drifted across the centerline. Case vehicle (A) entered the southbound lane and the driver woke up and saw headlights. He reportedly was unable to make any avoidance maneuvers and struck vehicle (B) head on in an offset mode. After the initial frontal impact, case vehicle (A) rotated counterclockwise, tripped over its right-side wheels, and rolled one-quarter turn onto its right side where it came to rest.

GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

[2](#) The direct damage to case vehicle (A) began at the left-front bumper corner and extended 100 cm across the front, resulting in 63-percent vehicle overlap. The maximum crush was 61 cm to the left-front bumper corner. [3](#) The impact with the ground during the rollover was minor. Direct damage extended 242 cm along the right side with a maximum crush of 2 cm to the right A-pillar.

[4](#) [5](#) The direct damage to vehicle (B) began at the left-front bumper corner and extended 100 cm across the front, resulting in 63-percent vehicle overlap. The maximum crush was 63 cm and was located 12 cm from the left-front bumper corner.

[6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) Using the WinSMASH accident-reconstruction program and c-values measured for both vehicles, the following impact severities were calculated:

Vehicle	Variable	Calculated Velocity Change - kph (mph)		
		Total	Longitudinal	Latitudinal
Case Vehicle (A)	delta V	51 (31)	-50 (-31)	-9 (-6)
Vehicle (B)	delta V	51 (32)	-50 (-31)	9 (6)

DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

Exterior

[14](#) The front of case vehicle (A) was severely damaged. The front bumper was crushed, the grille was damaged, and both headlight assemblies were broken. The hood was crushed and pushed upward and to the rear, the damaged hood latch had jammed, and the rear edge of the hood was elevated. The left hood hinge was deformed, but not separated from the vehicle. The windshield was probably cracked due to the impact, but the rescue team removed it to extricate the injured driver.

[15](#) On the left side, the fender was severely crushed, the driver door was damaged and jammed closed, and the driver door window glass was broken. [16](#) The left upper and lower A-pillars were deformed, and the upper A-, B-, and C-pillars were cut in order to extricate the injured driver. [17](#) Also, the left-front wheel was damaged, and the left wheelbase was decreased 33 cm. [18](#) [19](#) The second-door window glass was rolled down, and the rescue crew probably broke out the left-third window before they cut the upper pillars.

[20](#) The roof was probably buckled due to the impact, but was altered during extrication.

[21](#) [22](#) On the right side, there were scratches on the right fender, upper and lower A-pillars, and the second door due to the rollover impact with the ground. The right-front fender was also deformed due to the frontal impact, and the right wheelbase increased 3 cm.

[23](#) There was no damage to the rear of case vehicle (A).

Interior

[24](#) [25](#) This vehicle is equipped with steering-wheel and passenger frontal-impact airbags, which deployed during the severe frontal impact. [26](#) [27](#) There was no damage to the steering-wheel airbag skin, although there were bloodstains on the left upper portion. [28](#) The lower half of the steering-wheel rim and spokes were deformed from driver contact, and the steering column was rotated down and to the left. The upper and mid portions of the instrument panel were damaged, and the knee bolster was damaged from contact by the driver. [29](#) [30](#) Also, the controls on the instrument panel were damaged, the console was damaged, and the glove box was deformed. [31](#) The driver door panel, door trim, and door hardware were damaged from driver contact, and the left A-pillar was deformed. [32](#) The toe pan was damaged and intruded, and the console on the floor was damaged. [33](#) [34](#) The roof and headlining were deformed on the driver side, but there was no damage to the right-front roof area. [35](#) The following intrusions were noted and measured:

Location	Component	Distance (cm)	Direction
driver	instrument panel	22	to rear
	steering column	14	to rear
	B-pillar	12	to right
	door panel	8	to right
	toe pan	26	to rear

	knee bolster	19	to rear
	floor pan	10	up
	roof	3	down

OCCUPANT KINEMATICS AND INJURIES

[36](#) The 5-ft, 8-in, 160-lb, 34-year-old male driver was not wearing the three-point belt and the steering-wheel airbag deployed during the severe frontal impact. [37](#) [38](#) No visible evidence of belt use was found on the belt webbing, the D-ring, or the latch assembly. [39](#) The driver reportedly had the seat adjusted to a mid-to-forward seat-track position, and was unable to make any avoidance maneuvers.

During the frontal impact, the unbelted driver moved forward and to the left relative to the vehicle interior, into the airbag. He sustained a bloody nose from contact with the airbag. [40](#) He sustained numerous chest injuries, including a heart contusion, a sternum fracture, and fractures to right ribs 4 through 6, probably due to chest contact with the steering wheel rim through the airbag. In addition, he sustained a fracture to his right-fifth digit, and a laceration to his right thumb, possibly from contact with the center instrument panel. [41](#) [42](#) He also sustained a laceration below his left knee from contact with the left portion of the knee bolster, as evidenced by scuff marks on the bolster. He sustained a displaced fracture to the lateral aspect of the left talus, and a comminuted fracture to the lateral aspect of the right talus, probably from contact with the toepan.

The following table and attached drawing [43](#) summarize the injuries for the driver.

Occupant: Driver	Age: 34 years	Gender: Male		
Restraints: 3-point belt <u>not</u> worn; airbag deployed	Stature: 173 cm (5 ft, 8 in)	Mass: 72 kg (160 lb)		
Injury Description	A.I.S.	Injury Source		
—	—	Definite	Probable	Possible
Bloody nose	1	Airbag	—	—
Heart contusion	1	—	Steering wheel through airbag	—
Right rib fractures, 4-6	2	—	Steering wheel through airbag	—
Sternum fracture	2	—	Steering wheel through airbag	—
Laceration, right thumb	1	—	—	Center instrument panel
Fracture, right fifth digit	1	—	—	Center instrument panel
Laceration, below the left knee	1	Knee bolster	—	—
Displaced fracture, lateral aspect of the left talus	2	—	Toe pan	—
Comminuted fracture, lateral aspect of the right talus	2	—	Toe pan	—
Maximum A.I.S. Level	2	—	—	—
Injury Severity Score	9	—	—	—

CASE NO.: 235-00

CASE VEHICLE: 1998 Subaru

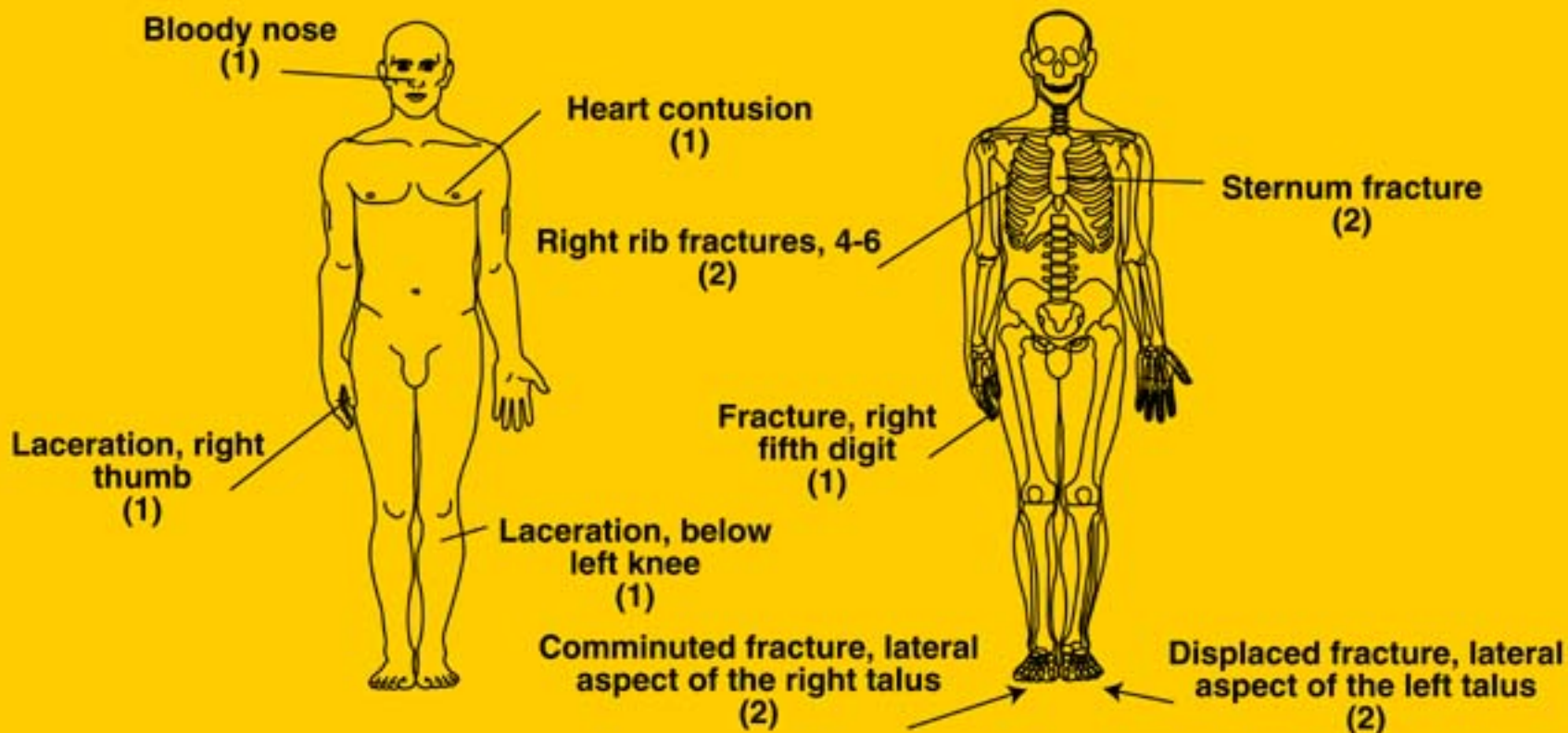
TYPE: Legacy Outback, 4-door station wagon

OCCUPANT: (Driver) 34-year-old male

STATURE: 173 cm (5 ft, 8 in) MASS: 72 kg (160 lb)

RESTRAINTS: 3-point belt not worn; airbag deployed

SEVERITY: MAIS - 2 ISS - 9



Case No.: 235-00

Case Veh. (A): 1998 Subaru

Type: **Legacy Outback**, 4-door station wagon

Driver: 34-year-old male

Vehicle (B): 1994 Toyota Camry, 4-door sedan

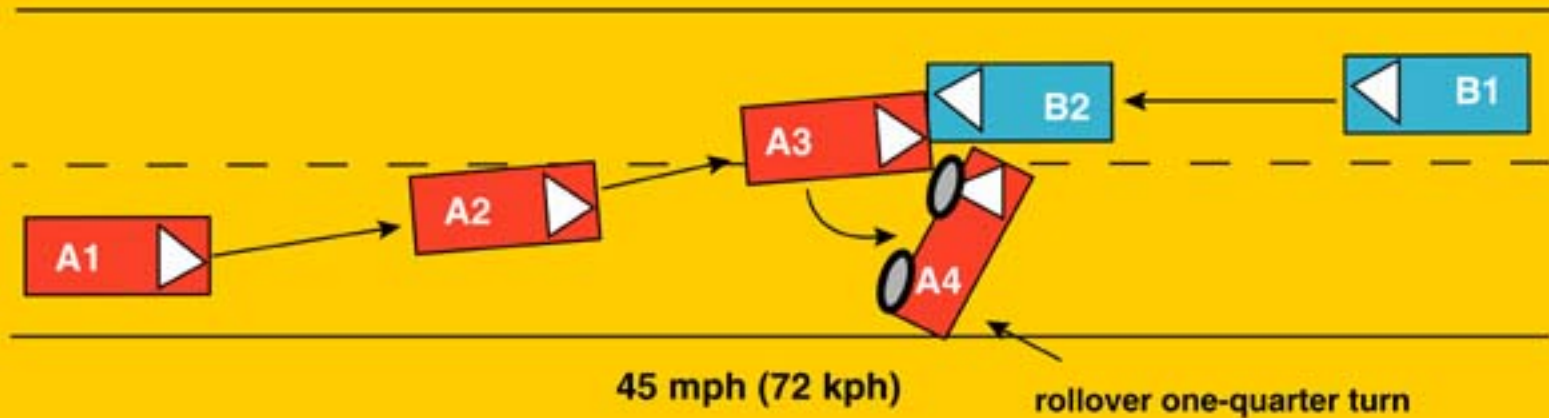
Weather: **Clear**

Road Surface: **Dry**

Road Construction: **Asphalt**

Light Condition: **Dark/Unlighted**

NORTH



235-00: Vehicle Report

General

Conditions

Variable Number and Name	Code Value	Code Description	Other Options
V206 — Urban/Rural Area	9	Unknown	more
V207 — Limited Access Highway	0	No	more
V208 — Road Total Lanes	2	2 lanes	more
V209 — Intersecting Road Total Lanes	8	Not applicable	more
V210 — Road Surface Type	1	Asphalt	more
V211 — Road Defects	0	No	more
V212 — Construction Zone	0	No	more
V213 — Road Alignment Vertical Plane	1	Level	more
V214 — Road Alignment Horizontal Plane	1	Straight	more
V215 — Surface Covering	10	Dry	more
V216 — Visibility Limitation	0	None	more
V217 — Visibility Obstruction	0	None	more
V218 — Speed Limit	4	71-79 km/h .. 45 mph	more
V219 — Precipitation Type	0	None	more
V220 — Precipitation Rate	8	Not applicable	more
V221 — Temperature	9	Unknown	more
V222 — Crosswind	9	Unknown	more
V223 — Light Conditions	5	Dark, unlighted	more
V224 — Mechanical Malfunction Mention	0	No	more
V225 — Case Vehicle and Object	0	No	more

V226 — Case Vehicle Rollover	2	Yes, Subsequent Event	more
V227 — Case Vehicle Ran Off Roadway	0	No	more
V228 — Moving Case Vehicle/Contacted Moving Vehicle	1	Yes	more
V229 — Case Vehicle/Contacted Stopped Vehicle	0	No	more
V230 — Stopped Case Vehicle/Contactd Vehicle	0	No	more
V231 — Total Vehicles Hit By Case Vehicle	1	1 vehicle	more
V232 — Any Fire in Crash	0	No	more
V233 — Max Police Severity-PAR	7	Non-Fatal Injury, Severity Unknown	more
V234 — Driver Alcohol Involvement	0	Had not been drinking	more
V235 — Driver Alcohol BAC	80	Not tested	more
V236 — Driver Impairment Mention	0	No	more
V237 — Driven/Towed From Scene	2	Towed Due to Damage	more

Other Vehicle

Variable Number and Name	Code Value	Code Description	Other Options
V301 — Other Vehicle VIN	4T1SK11E5RU3	—	—
V302 — Other Vehicle Manufacturer/Body Code	18327	—	—
V303 — Other Vehicle Manufacturer	183	Toyota/America	more
V304 — Other Vehicle Body Code	27	Compact 100-104.9 in. wb.	more
V305 — Other Vehicle Make/Model	1610	Camry	more
V306 — Other Vehicle Model Year	1994	—	—
V307 — Other Vehicle Mass	001412 kg	—	—
V308 — Other Vehicle Number	0	No separate report	more
V309 — Other Vehicle Number of Occupants	01	—	—
V310 — Other Vehicle Traveling Speed	999	Unknown	more
V311 — Highest Police Injury Severity	7	Non-Fatal Injury, Severity Unknown	more
V312 — Other Vehicle Type	27	Compact 100-104.9 in. wb.	more
V313 — Other Vehicle Wheelbase (cm)	266 cm	—	—
V314 — Average Track Width	153 cm	—	—
V315 — Overall Length	479 cm	—	—
V316 — Overall Width (OAW)	178 cm	—	—
V317 — Front Overhang (FOH)	098 cm	—	—
V318 — Rear Overhang (ROH)	115 cm	—	—
V319 — Undeformed End Width (UEW)	155 cm	—	—
V320 — Engine Displacement	2.1 <i>l</i>	—	—
V321 — Engine: Number of	04	—	—

Cylinders			
V322 — Direct Damage Length (DDL)	100 cm	—	—
V323 — Front-End Overlap % (FEO)	65	—	—
V324 — Vehicle Overlap % (VOL)	63	—	—

Case Vehicle

General

Variable Number and Name	Code Value	Code Description	Other Options
V401 — VIN	4S3BG6858W76	—	—
V402 — Manufacturer/Body Code	18627	—	—
V403 — Vehicle Manufacturer	186	—	—
V404 — Vehicle Body Code	27	—	—
V405 — Make/Model Code	2626	Legacy	more
V406 — Model Year	1998	—	—
V407 — Vehicle Mass	001428 kg	—	—
V408 — Odometer Reading	071383 miles	—	—
V409 — Number of Occupants	01	—	—
V410 — Traveling Speed	072 kph	—	—
V411 — Body Type	15	Station wagon	more
V412 — Stolen Vehicle	8	Not currently collected	more
V413 — Body Structure	2	Unitized	more
V414 — Transmission Type	1	Automatic	more
V415 — Transmission Lever Location	2	Console	more
V416 — Steering	1	Power	more
V417 — Brakes	1	Power	more
V418 — Brake Type	3	Disc - all wheels	more
V419 — Brake Anti-lock Device	2	Four-wheel	more
V420 — Air Conditioning in Vehicle	8	Not currently collected	more
V421 — Drive Type	4	All wheel drive	more
V422 — Dual Rear Wheels	0	No	more
V423 — Original Restraint System Type	3	Airbag	more

V424 — Equipped With Roll Bar	0	No	more
V425 — Roof Type	1	Solid	more
V426 — Wheelbase	263 cm	—	—
V427 — Anti-lacerative Glass	0	None	more
V428 — Average Track Width	146 cm	—	—
V429 — Overall Length	472 cm	—	—
V430 — Overall Width (OAW)	172 cm	—	—
V431 — Front Overhang	098 cm	—	—
V432 — Rear Overhang	111 cm	—	—
V433 — Undeformed End Width (UEW)	155 cm	—	—
V434 — Engine Displacement	2.4 l	—	—
V435 — Engine: Number of Cylinders	04	—	—
V436 — Direct Damage Length (DDL)	100 cm	—	—
V437 — Front End Overlap % (FEO)	65	—	—
V438 — Vehicle Overlap % (VOL)	63	—	—

Case Vehicle

Damage

Description

Variable Number and Name	Code Value	Code Description	Other Options
V501 — Maximum Crush - Front	061 cm	—	—
V502 — Maximum Crush - Right Side	002 cm	—	—
V503 — Maximum Crush - Rear	000 cm	No crush (or less than 1 cm.)	more
V504 — Maximum Crush - Left Side	000 cm	No crush (or less than 1 cm.)	more
V505 — Maximum Crush - Roof	000 cm	No crush (or less than 1 cm.)	more
V506 — Maximum Crush - Other	000 cm	No crush (or less than 1 cm.)	more
V507 — Are Events In Chronological Order	1	Yes	more
V508 — Event 1 Impact Location	1	On Roadway	more
V509 — Event 1 Impact Configuration	11	FRONT of case veh - FRONT of contacted Vehicle	more
V510 — Event 1 Object/Vehicle Contacted	27	Compact 100-104.9 in. wb.	more
V511 — Event 2 Impact Location	1	—	—
V512 — Event 2 Impact Configuration	61	Case vehicle rollover - less than 360 degrees	more
V513 — Event 2 Object/Vehicle Contacted	80	Ground (rollover only)	more
V514 — Event 3 Impact Location	8	No 3rd event	more
V515 — Event 3 Impact Configuration	88	No 3rd event	more
V516 — Event 3 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V517 — Event 4 Impact Location	8	No 4th event	more
V518 — Event 4 Impact Configuration	88	No 4th event	more

V519 — Event 4 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V520 — Event 5 Impact Location	8	No 5th event	more
V521 — Event 5 Impact Configuration	88	No 5th event	more
V522 — Event 5 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V523 — Event 6 Impact Location	8	No 6th event	more
V524 — Event 6 Impact Configuration	88	No 6th event	more
V525 — Event 6 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V526 — Event 7 Impact On Road	8	No 7th event	more
V527 — Event 7 Impact Configuration	88	No 7th event	more
V528 — Event 7 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V529 — Primary CDC Case Vehicle -event Number	1	Event 1	more
V530 — Primary CDC Case Vehicle - impact speed	999	Unknown	more
V531 — Primary CDC Case Vehicle - Estimated By	1	Investigator	more
V532 — Primary CDC Case Vehicle -crush	061	—	—
V533 — Primary CDC Case Vehicle -clock #1	12	12 o'clock	more
V534 — Primary CDC Case Vehicle letter 1 #1	06	F - Front	more
V535 — Primary CDC Case Vehicle letter 2 #1	25	Y - Side or end (F + P or L + C)	more
V536 — Primary CDC Case Vehicle letter 3 #1	05	E - Everything below belt line	more
V537 — Primary CDC Case Vehicle letter 4 #1	23	W - Wide impact area	more
V538 — Primary CDC Case Vehicle Extent #1	03	Extent 3	more
V539 — Primary CDC Case Vehicle -CDC #1	12FYEW3	—	—

V541 — Primary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V542 — Primary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V543 — Primary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V544 — Primary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V545 — Primary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	more
V546 — Primary CDC Case Vehicle -CDC #2	9800000	—	—
V547 — Primary CDC Contacted Vehicle - Impact Speed	999	Unknown	more
V548 — Primary CDC Contacted Vehicle - Estimated By	1	Investigator	more
V549 — Primary CDC Contacted Vehicle -crush	063	—	—
V550 — Primary CDC Contacted Vehicle -clock #1	12	12 o'clock	more
V551 — Primary CDC Contacted Vehicle letter 1 #1	06	F - Front	more
V552 — Primary CDC Contacted Vehicle letter 2 #1	25	Y - Side or end (F + P or L + C)	more
V553 — Primary CDC Contacted Vehicle letter 3 #1	05	E - Everything below belt line	more
V554 — Primary CDC Contacted Vehicle letter 4 #1	23	W - Wide impact area	more
V555 — Primary CDC Contacted Vehicle Extent #1	03	Extent 3	more
V556 — Primary CDC Contacted Vehicle -CDC #1	12FYEW3	—	—
V558 — Primary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V559 — Primary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V560 — Primary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V561 — Primary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	more

V562 — Primary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	more
V563 — Primary CDC Contacted Vehicle -CDC #2	9800000	—	—
V564 — Secondary CDC Case Vehicle - Event No	1	Event 1	more
V565 — Secondary CDC Case Vehicle - Impact Speed	999	Unknown	more
V566 — Secondary CDC Case Vehicle - Estimated By	1	—	—
V567 — Secondary CDC Case Vehicle -crush	002	—	—
V568 — Secondary CDC Case Vehicle -clock #1	00	Nonhorizontal force	more
V569 — Secondary CDC Case Vehicle letter 1 #1	18	R - Right Side	more
V570 — Secondary CDC Case Vehicle letter 2 #1	04	D - Distributed (Side or End)	more
V571 — Secondary CDC Case Vehicle letter 3 #1	01	A - All	more
V572 — Secondary CDC Case Vehicle letter 4 #1	15	O - Rollover (includes rolling onto side)	more
V573 — Secondary CDC Case Vehicle Extent #1	03	Extent 3	more
V574 — Secondary CDC Case Vehicle -CDC #1	00RDAO3	—	—
V576 — Secondary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V577 — Secondary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V578 — Secondary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V579 — Secondary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V580 — Secondary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	more
V581 — Secondary CDC Case Vehicle -CDC #2	9800000	—	—
V582 — Secondary CDC Contacted Vehicle - Impact Speed	998	Not Applicable	more

V583 — Secondary CDC Contacted Vehicle - Estimated By	1	—	—
V584 — Secondary CDC Contacted Vehicle -crush	998	Not Applicable	more
V585 — Secondary CDC Contacted Vehicle -clock #1	98	Not Applicable	more
V586 — Secondary CDC Contacted Vehicle letter 1 #1	00	Missing Data/Not applicable	more
V587 — Secondary CDC Contacted Vehicle letter 2 #1	00	Missing Data/Not applicable	more
V588 — Secondary CDC Contacted Vehicle letter 3 #1	00	Missing Data/Not applicable	more
V589 — Secondary CDC Contacted Vehicle letter 4 #1	00	Missing Data/Not applicable	more
V590 — Secondary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	more
V591 — Secondary CDC Contacted Vehicle -CDC #1	9800000	—	—
V593 — Secondary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V594 — Secondary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V595 — Secondary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V596 — Secondary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V597 — Secondary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	more
V598 — Secondary CDC Contacted Vehicle -CDC #2	9800000	—	—

Crash Severity

Variable Number and Name	Code Value	Code Description	Other Options
V601 — Case Vehicle Primary Impact Number	1	—	—
V602 — Primary Impact Total Delta-V	051 kph	—	—
V603 — Primary Case Vehicle Reconstructed Longitudinal Delta-V	-050 kph	—	—
V604 — Primary Case Vehicle Reconstructed Lateral Delta-V	-009 kph	—	—
V605 — Primary Case Vehicle Reconstructed Crush Energy	0142 kJ	—	—
V606 — Primary Impact Case Vehicle -reconstruction	22	Reconstructed, moderate confidence level	more
V607 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	more
V608 — Primary Contacted Vehicle Reconstructed Total Delta-V	051 kph	—	—
V609 — Primary Contacted Vehicle Reconstructed Longitudinal Delta-V	-050 kph	—	—
V610 — Primary Contacted Vehicle Reconstructed Lateral Delta-V	0009 kph	—	—
V611 — Primary Contacted Vehicle Reconstructed Crush Energy	0186 kJ	—	—
V612 — Case Vehicle Secondary Impact Number	2	—	—
V613 — Secondary Case Vehicle Reconstructed Total Delta-V	888	N/A	more
V614 — Secondary Case Vehicle Reconstructed Longitudinal Delta-V	8888	—	—
V615 — Secondary Case Vehicle Reconstructed Lateral Delta-V	8888	—	—
V616 — Secondary Case Vehicle Reconstructed Crush Energy	8888	—	—
V617 — Secondary Case Vehicle Reconstruction Note	04	Rollover	more

V618 — Secondary Case Vehicle Reconstruction Mode	5	Not reconstructed	more
V619 — Secondary Contacted Vehicle Reconstructed Total Delta-V	888	N/A	more
V620 — Secondary Contacted Vehicle Reconstructed Longitudinal Delta-V	8888	—	—
V621 — Secondary Contacted Vehicle Reconstructed Lateral Delta-V	8888	—	—
V622 — Secondary Contacted Vehicle Reconstructed Crush Energy	8888	—	—
V623 — Case Vehicle Primary Impact Number	1	—	—
V624 — Primary Case Vehicle Reconstructed Total EBS	045 kph	—	—
V625 — Primary Case Vehicle Reconstructed Longitudinal EBS	-045 kph	—	—
V626 — Primary Case Vehicle Reconstructed Lateral EBS	-008 kph	—	—
V627 — Primary Case Vehicle Reconstructed Crush Energy	0142 kJ	—	—
V628 — Primary Case Vehicle Reconstruction Note	22	Reconstructed, moderate confidence level	more
V629 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	more
V630 — Primary Contacted Vehicle Reconstruction Total EBS	057 kph	—	—
V631 — Primary Contacted Vehicle Reconstruction Longitudinal EBS	-056 kph	—	—
V632 — Primary Contacted Vehicle Reconstruction Lateral EBS	0010 kph	—	—
V633 — Primary Contacted Vehicle Reconstruction Crush Energy	0186 kJ	—	—
V634 — Case Vehicle Secondary Impact Number	2	—	—
V635 — Secondary Case Vehicle Reconstruction Total EBS	888	N/A	more
V636 — Secondary Case Vehicle Reconstruction Longitudinal EBS	8888	—	—
V637 — Secondary Case Vehicle Reconstruction Lateral EBS	8888	—	—

V638 — Secondary Case Vehicle Reconstruction Crush Energy	8888	—	—
V639 — Secondary Case Vehicle Reconstruction Note	04	Rollover	more
V640 — Secondary Case Vehicle Reconstruction Mode	5	Not reconstructed	more
V641 — Secondary Contacted Vehicle Reconstruction Total EBS	888	N/A	more
V642 — Secondary Contacted Vehicle Reconstruction Longitudinal EBS	8888	—	—
V643 — Secondary Contacted Vehicle Reconstruction Lateral EBS	8888	—	—
V644 — Secondary Contacted Vehicle Reconstruction Crush Energy	8888	—	—
V645 — Case Vehicle Reconstructed Impact Number	1	—	—
V646 — Case Vehicle Impact 1 Plane	1	Bumper	more
V647 — Case Vehicle Impact 1 Direct Damage Length [DDL]	100 cm	—	—
V648 — Case Vehicle Impact 1 Max Crush	061 cm	—	—
V649 — Case Vehicle Impact 1 Field-L	134 cm	—	—
V650 — Case Vehicle Impact 1 C1	061 cm	—	—
V651 — Case Vehicle Impact 1 C2	057 cm	—	—
V652 — Case Vehicle Impact 1 C3	059 cm	—	—
V653 — Case Vehicle Impact 1 C4	050 cm	—	—
V654 — Case Vehicle Impact 1 C5	030 cm	—	—
V655 — Case Vehicle Impact 1 C6	019 cm	—	—
V656 — Case Vehicle Impact 1 +/- D	-028 cm	—	—
V657 — Case Vehicle Reconstructed Impact Number	2	—	—
V658 — Case Vehicle Impact 2 Plane	4	Above sill	more
V659 — Case Vehicle Impact 2 Direct Damage Length [DDL]	242 cm	—	—
V660 — Case Vehicle Impact 2 Max	002 cm	—	—

Crush			
V661 — Case Vehicle Impact 2 Field-L	242 cm	—	—
V662 — Case Vehicle Impact 2 C1	999	Unknown	more
V663 — Case Vehicle Impact 2 C2	999	Unknown	more
V664 — Case Vehicle Impact 2 C3	999	Unknown	more
V665 — Case Vehicle Impact 2 C4	999	Unknown	more
V666 — Case Vehicle Impact 2 C5	999	Unknown	more
V667 — Case Vehicle Impact 2 C6	999	Unknown	more
V668 — Case Vehicle Impact 2 +/- D	0999 cm	—	—
V669 — Other Vehicle Reconstructed Impact Number	1	—	—
V670 — Other Vehicle Impact 1 Plane	1	Bumper	more
V671 — Other Vehicle Impact 1 Direct Damage Length [DDL]	100 cm	—	—
V672 — Other Vehicle Impact 1 Max Crush	063 cm	—	—
V673 — Other Vehicle Impact 1 Field-L	060 cm	—	—
V674 — Other Vehicle Impact 1 C1	054 cm	—	—
V675 — Other Vehicle Impact 1 C2	063 cm	—	—
V676 — Other Vehicle Impact 1 C3	051 cm	—	—
V677 — Other Vehicle Impact 1 C4	034 cm	—	—
V678 — Other Vehicle Impact 1 C5	019 cm	—	—
V679 — Other Vehicle Impact 1 C6	002 cm	—	—
V680 — Other Vehicle Impact 1 +/- D	-050 cm	—	—
V681 — Other Vehicle Reconstructed Impact Number	2	—	—
V682 — Other Vehicle Impact 2 Plane	8	Not applicable	more
V683 — Other Vehicle Impact 2 Direct Damage Length [DDL]	998	Not applicable	more
V684 — Other Vehicle Impact 2 Max Crush	998	Not applicable	more

V685 — Other Vehicle Impact 2 Field-L	998	Not applicable	more
V686 — Other Vehicle Impact 2 C1	998	Not applicable	more
V687 — Other Vehicle Impact 2 C2	998	Not applicable	more
V688 — Other Vehicle Impact 2 C3	998	Not applicable	more
V689 — Other Vehicle Impact 2 C4	998	Not applicable	more
V690 — Other Vehicle Impact 2 C5	998	Not applicable	more
V691 — Other Vehicle Impact 2 C6	998	Not applicable	more
V692 — Other Vehicle Impact 2 +/- D	9998	—	—

Case Vehicle

Tires & Rims

Variable Number and Name	Code Value	Code Description	Other Options
V701 — Left Front Wheel Damaged	1	Yes	more
V702 — Right Front Wheel Damaged	0	No	more
V703 — Right Rear Wheel Damaged	0	No	more
V704 — Left Rear Wheel Damaged	0	No	more
V705 — Left Front Tire Tread Type	4	All Weather	more
V706 — Right Front Tire Tread Type	4	All Weather	more
V707 — Right Rear Tire Tread Type	4	All Weather	more
V708 — Left Rear Tire Tread Type	4	All Weather	more
V709 — Left Front Carcass Construction	3	Radial	more
V710 — Right Front Carcass Construction	3	Radial	more
V711 — Right Rear Carcass Construction	3	Radial	more
V712 — Left Rear Carcass Construction	3	Radial	more
V717 — Left Front Tire Size	9999999999	—	—
V718 — Right Front Tire Size	9999999999	—	—
V719 — Right Rear Tire Size	9999999999	—	—
V720 — Left Rear Tire Size	9999999999	—	—

Case Vehicle

Fuel, Tank, Fire

Variable Number and Name	Code Value	Code Description	Other Options
V801 — Propulsive Fuel Type	1	Gasoline	more
V802 — Main Tank Location	322	Within frame/centered laterally - within vertically	more
V803 — Main Filler Cap Location	133	—	—
V804 — Main Tank Material	9	Unknown	more
V805 — Aux Tank Type	8	Not applicable (not equipped)	more
V806 — Aux Tank Location	888	Not applicable (not equipped)	more
V807 — Aux Filler Cap Location	888	Not applicable (not equipped)	more
V808 — Aux Tank Material	8	Not applicable	more
V901 — Fuel Leakage From Crash	0	No	more
V1001 — Fire In Or On Case Vehicle	0	No	more

Case Vehicle

Exterior

Variable Number and Name	Code Value	Code Description	Other Options
V1101 — Hood Latch Released	1	Yes	more
V1102 — Hood Latch Damaged	1	Yes	more
V1103 — Hood Latch Jammed	1	Yes	more
V1104 — Left Hood Hinge Damaged	1	Yes	more
V1105 — Left Hood Hinge Separated	0	No	more
V1106 — Right Hood Hinge Damaged	0	No	more
V1107 — Right Hood Hinge Separated	8	Not applicable	more
V1108 — Hood Remained On Vehicle	1	Yes	more
V1109 — Rear Hood Edge Elevated	1	Yes	more
V1110 — Edge Contacted Windshield	9	Unknown	more
V1111 — Edge Penetrated Windshield	9	Unknown	more
V1112 — Hood Latch Location	1	Front of Vehicle	more
V1113 — Eng/Transmissn Mount Separation	0	No	more
V1114 — Steerng Column Flex Coupling	9	Unknown if equipped	more
V1115 — Steerng Column Coupling Damaged	9	Unknown	more
V1116 — Steerng Column Coupling Separated	9	Unknown	more
V1117 — Eng Comp Telescopng Unit	88	Not collected	more
V1118 — Comp Orig/Telescopd Diff	888	Not collected	more

V1119 — Left Side Body Mount Separation	8	Not applicable (unitized)	more
V1120 — Upper Left A-pillar Separation	4	No separation, but damaged	more
V1121 — Lower Left A-pillar Separation	4	No separation, but damaged	more
V1122 — Upper Left B-pillar Separation	0	No	more
V1123 — Lower Left B-pillar Separation	0	No	more
V1124 — Upper Left C-pillar Separation	0	No	more
V1125 — Lower Left C-pillar Separation	0	No	more
V1126 — Upper Left D-pillar Separation	0	No	more
V1127 — Lower Left D-pillar Separation	0	No	more
V1128 — Left Front Door Opening Cause	0	Door did not open	more
V1129 — Left Rear Door Opening Cause	0	Door did not open	more
V1130 — Left Front Door Jammed Closed	1	Yes	more
V1131 — Left Rear Door Jammed Closed	0	No	more
V1132 — Rear Door Type	1	Hatchback	more
V1133 — Rear Door Opening Cause	0	Door did not open	more
V1134 — Rear Door Jammed Closed	0	No	more
V1135 — Luggage Partition Damagd	8	Not applicable	more
V1136 — Spare Tire Status	8	Not collected	more
V1137 — Trailer Hitch Type	0	No hitch	more
V1138 — Trailer Type	0	No trailer	more
V1139 — Right Side Body Mount Separation	8	Not applicable (unitized)	more

V1140 — Upper Right A-pillar Separation	0	No	more
V1141 — Lower Right A-pillar Separation	0	No	more
V1142 — Upper Right B-pillar Separation	0	No	more
V1143 — Lower Right B-pillar Separation	0	No	more
V1144 — Upper Right C-pillar Separation	0	No	more
V1145 — Lower Right C-pillar Separation	0	No	more
V1146 — Upper Right D-pillar Separation	0	No	more
V1147 — Lower Right D-pillar Separation	0	No	more
V1148 — Right Front Door Opening Cause	00	Door did not open	more
V1149 — Right Rear Door Opening Cause	00	Door did not open	more
V1150 — Right Front Door Jammed Closed	0	No	more
V1151 — Right Rear Door Jammed Closed	0	No	more
V1152 — Van Rear Door Type	8	Not applicable (not a van)	more
V1153 — Windshield Cracked		Yes	more
V1154 — Windshield Broken	8	Not applicable	more
V1155 — Windshield Cracked or Broken by Occupant	8	Not applicable	more
V1156 — Bond Separation Extent	0	None	more
V1157 — Windshield Code		—	—
V1158 — Did Sun/T Roof Open	8	Not Applicable	more

Case Vehicle

Steering

Column/Rim

Variable Number and Name	Code Value	Code Description	Other Options
V1201 — Steering Wheel Rim Damage	1	Deformed slightly	more
V1202 — Number of Steering Wheel Spokes	4	4 spokes	more
V1203 — Steering Wheel Spoke Damage	1	Deformed slightly	more
V1204 — Column Tilt Feature	3	Middle	more
V1205 — Column Swing-away Feature	0	Not equipped	more
V1206 — Column Telescoping Feature	0	Not equipped	more
V1207 — Wheel Energy Absorb Device	8	Not collected	more
V1208 — Wheel Ea Orig/Damaged Diff	888	Not collected	more
V1209 — Column Energy Absorb Device	88	Not collected	more
V1210 — Column Ea Orig/Comprss Diff	888	Not collected	more
V1211 — Shear Capsule Separation	888	Not collected	more
V1212 — Column Vertical Rotation	2	Downward apparent rotation	more
V1213 — Column Lateral Rotation	1	Left apparent rotation	more
V1214 — Steering Wheel Hub Damage	0	None	more

Case Vehicle

Intrusion

Variable Number and Name	Code Value	Code Description	Other Options
V1301 — Occupant Compartment Intrusion	1	Yes	more
V1302 — Was Intrusion Catastrophic	0	No	more
V1303 — Intrusion Number 01	01	Intrusion #1	more
V1304 — Intrusion 01 Occupant Space Number	11	First row, Left seat	more
V1305 — Intrusion 01 Intruding Object	01	Instrument panel	more
V1306 — Intrusion 01 Assoc Event Number	1	Event #1	more
V1307 — Intrusion 01 Max Intrusion X-axis	22 cm	—	—
V1308 — Intrusion 01 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1309 — Intrusion 01 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1310 — Intrusion 01 Occupant Number	01	Occupant number 1, contact	more
V1311 — Intrusion 01 Injury Number	05	Injury #5	more
V1312 — Intrusion 01 Occupant Number	01	Occupant number 1, contact	more
V1313 — Intrusion 01 Injury Number	06	Injury #6	more
V1314 — Intrusion Number 02	02	Intrusion #2	more
V1315 — Intrusion 02 Occupant Space Number	11	First row, Left seat	more
V1316 — Intrusion 02 Intruding Object	08	A-pillar	more
V1317 — Intrusion 02 Assoc Event Number	1	Event #1	more

V1318 — Intrusion 02 Max Intrusion X-axis	99	Unknown or data not collected	more
V1319 — Intrusion 02 Max Intrusion Y-axis	99	Unknown or data not collected	more
V1320 — Intrusion 02 Max Intrusion Z-axis	99	Unknown	more
V1321 — Intrusion 02 Occupant Number	00	No contact or no intrusion	more
V1322 — Intrusion 02 Injury Number	00	No injury or no intrusion	more
V1323 — Intrusion 02 Occupant Number	00	No contact or no intrusion	more
V1324 — Intrusion 02 Injury Number	00	No injury or no intrusion	more
V1325 — Intrusion Number 03	03	Intrusion #3	more
V1326 — Intrusion 03 Occupant Space Number	11	First row, Left seat	more
V1327 — Intrusion 03 Intruding Object	05	Steering column	more
V1328 — Intrusion 03 Assoc Event Number	1	Event #1	more
V1329 — Intrusion 03 Max Intrusion X-axis	14 cm	—	—
V1330 — Intrusion 03 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1331 — Intrusion 03 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1332 — Intrusion 03 Occupant Number	01	Occupant number 1, contact	more
V1333 — Intrusion 03 Injury Number	01	Injury #1	more
V1334 — Intrusion 03 Occupant Number	01	Occupant number 1, contact	more
V1335 — Intrusion 03 Injury Number	03	Injury #3	more
V1336 — Intrusion Number 04	04	Intrusion #4	more
V1337 — Intrusion 04 Occupant Space Number	11	First row, Left seat	more
V1338 — Intrusion 04 Intruding	11	B-pillar	more

Object			
V1339 — Intrusion 04 Assoc Event Number	1	Event #1	more
V1340 — Intrusion 04 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1341 — Intrusion 04 Max Intrusion Y-axis	12 cm	—	—
V1342 — Intrusion 04 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1343 — Intrusion 04 Occupant Number	00	No contact or no intrusion	more
V1344 — Intrusion 04 Injury Number	00	No injury or no intrusion	more
V1345 — Intrusion 04 Occupant Number	00	No contact or no intrusion	more
V1346 — Intrusion 04 Injury Number	00	No injury or no intrusion	more
V1347 — Intrusion Number 05	05	Intrusion #5	more
V1348 — Intrusion 05 Occupant Space Number	11	First row, Left seat	more
V1349 — Intrusion 05 Intruding Object	09	Door panel or side panel	more
V1350 — Intrusion 05 Assoc Event Number	1	Event #1	more
V1351 — Intrusion 05 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1352 — Intrusion 05 Max Intrusion Y-axis	08 cm	—	—
V1353 — Intrusion 05 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1354 — Intrusion 05 Occupant Number	00	No contact or no intrusion	more
V1355 — Intrusion 05 Injury Number	00	No injury or no intrusion	more
V1356 — Intrusion 05 Occupant Number	00	No contact or no intrusion	more
V1357 — Intrusion 05 Injury Number	00	No injury or no intrusion	more
V1358 — Intrusion Number 06	06	Intrusion #6	more

V1359 — Intrusion 06 Occupant Space Number	11	First row, Left seat	more
V1360 — Intrusion 06 Intruding Object	03	Toe pan	more
V1361 — Intrusion 06 Assoc Event Number	1	Event #1	more
V1362 — Intrusion 06 Max Intrusion X-axis	26 cm	—	—
V1363 — Intrusion 06 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1364 — Intrusion 06 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1365 — Intrusion 06 Occupant Number	01	Occupant number 1, contact	more
V1366 — Intrusion 06 Injury Number	08	—	—
V1367 — Intrusion 06 Occupant Number	01	Occupant number 1, contact	more
V1368 — Intrusion 06 Injury Number	09	—	—
V1369 — Intrusion Number 07	07	Intrusion #7	more
V1370 — Intrusion 07 Occupant Space Number	11	First row, Left seat	more
V1371 — Intrusion 07 Intruding Object	01	Instrument panel	more
V1372 — Intrusion 07 Assoc Event Number	1	Event #1	more
V1373 — Intrusion 07 Max Intrusion X-axis	19 cm	—	—
V1374 — Intrusion 07 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1375 — Intrusion 07 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1376 — Intrusion 07 Occupant Number	01	Occupant number 1, contact	more
V1377 — Intrusion 07 Injury Number	07	—	—
V1378 — Intrusion 07 Occupant Number	00	No contact or no intrusion	more

V1379 — Intrusion 07 Injury Number	00	No injury or no intrusion	more
V1380 — Intrusion Number 08	08	Intrusion #8	more
V1381 — Intrusion 08 Occupant Space Number	11	First row, Left seat	more
V1382 — Intrusion 08 Intruding Object	04	Floor pan	more
V1383 — Intrusion 08 Assoc Event Number	1	Event #1	more
V1384 — Intrusion 08 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1385 — Intrusion 08 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1386 — Intrusion 08 Max Intrusion Z-axis	10 cm	—	—
V1387 — Intrusion 08 Occupant Number	00	No contact or no intrusion	more
V1388 — Intrusion 08 Injury Number	00	No injury or no intrusion	more
V1389 — Intrusion 08 Occupant Number	00	No contact or no intrusion	more
V1390 — Intrusion 08 Injury Number	00	No injury or no intrusion	more
V1391 — Intrusion Number 09	09	Intrusion #9	more
V1392 — Intrusion 09 Occupant Space Number	11	First row, Left seat	more
V1393 — Intrusion 09 Intruding Object	15	Roof or convertible top	more
V1394 — Intrusion 09 Assoc Event Number	1	Event #1	more
V1395 — Intrusion 09 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1396 — Intrusion 09 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1397 — Intrusion 09 Max Intrusion Z-axis	03 cm	—	—
V1398 — Intrusion 09 Occupant Number	00	No contact or no intrusion	more
V1399 — Intrusion 09 Injury	00	No injury or no intrusion	more

Number			
V1400 — Intrusion 09 Occupant Number	00	No contact or no intrusion	more
V1401 — Intrusion 09 Injury Number	00	No injury or no intrusion	more
V1402 — Intrusion Number 10	00	No Intrusion, None	more
V1403 — Intrusion 10 Occupant Space Number	00	No Intrusion, None	more
V1404 — Intrusion 10 Intruding Object	00	No Intrusion, None	more
V1405 — Intrusion 10 Assoc Event Number	0	No Intrusion, None	more
V1406 — Intrusion 10 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1407 — Intrusion 10 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1408 — Intrusion 10 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1409 — Intrusion 10 Occupant Number	00	No contact or no intrusion	more
V1410 — Intrusion 10 Injury Number	00	No injury or no intrusion	more
V1411 — Intrusion 10 Occupant Number	00	No contact or no intrusion	more
V1412 — Intrusion 10 Injury Number	99	Contact, injury unknown or data not collected	more
V1413 — Door Intrusion Number 01	05	—	—
V1414 — Door Intrusion Number 01 Cause	2	Induced impact	more
V1415 — Door Intrusion Number 02	88	Not Applicable	more
V1416 — Door Intrusion Number 02 Cause	8	Not applicable	more
V1417 — Door Intrusion Number 03	88	Not Applicable	more
V1418 — Door Intrusion Number 03 Cause	8	Not applicable	more
V1419 — Door Intrusion 01	88	Not Applicable	more

Component			
V1420 — Door Intrusion 01 Component Damaged 1	8	Not Applicable	more
V1421 — Door Intrusion 01 Component Damaged 2	8	Not Applicable	more
V1422 — Door Intrusion 02 Component	88	Not Applicable	more
V1423 — Door Intrusion 02 Component Damaged 1	8	Not Applicable	more
V1424 — Door Intrusion 02 Component Damaged 2	8	Not Applicable	more
V1425 — Door Intrusion 03 Component	88	Not Applicable	more
V1426 — Door Intrusion 03 Component Damaged 1	8	Not Applicable	more
V1427 — Door Intrusion 03 Component Damaged 2	8	Not Applicable	more
V1428 — Door Intrusion 04 Component	88	Not Applicable	more
V1429 — Door Intrusion 04 Component Damaged 1	8	Not Applicable	more
V1430 — Door Intrusion 04 Component Damaged 2	8	Not Applicable	more

Case Vehicle

Airbag(s)

Variable Number and Name	Code Value	Code Description	Other Options
V1501 — Driver Airbag Equipped	1	Yes	more
V1502 — Driver Airbag Deployed	1	Yes	more
V1503 — Driver Airbag Condition	0	No Damage	more
V1504 — Passenger Airbag Equip	1	Yes	more
V1505 — Passenger Airbag Deployed	1	Yes	more
V1506 — Passenger Airbag Condition	0	No Damage	more
V1507 — Steering Wheel Airbag Tether	1	Yes	more
V1508 — Driver Airbag Marked By Contact	0	No	more
V1509 — Passenger Airbag Tether	0	No	more
V1510 — Passenger Airbag Marked By Contact	0	No	more

Case Vehicle

Interior

Variable Number and Name	Code Value	Code Description	Other Options
V1601 — Left Front Door Damaged	4	Yes, occupant contact	more
V1602 — Right Front Door Damaged	0	No	more
V1603 — Left Front Hardware Damaged	4	Yes, occupant contact	more
V1604 — Right Front Hardware Damaged	0	No	more
V1605 — Left Front Armrest Damaged	0	No	more
V1606 — Right Front Armrest Damaged	0	No	more
V1607 — Left Front Glass Damaged	1	Yes	more
V1608 — Right Front Glass Damaged	0	No	more
V1609 — Left Rear Door Area Damaged	0	No	more
V1610 — Right Rear Door Area Damaged	0	No	more
V1611 — Left Rear Hardware Damaged	0	No	more
V1612 — Right Rear Hardware Damaged	0	No	more
V1613 — Left Rear Armrest Damaged	0	No	more
V1614 — Right Rear Armrest Damaged	0	No	more
V1615 — Left Rear Glass Damaged	0	No	more
V1616 — Right Rear Glass Damaged	0	No	more
V1617 — Left Roof Side Rail Damaged	0	No	more

V1618 — Right Roof Side Rail Damaged	0	No	more
V1619 — Left B-pillar Damaged	0	No	more
V1620 — Right B-pillar Damaged	0	No	more
V1621 — Left C-pillar Damaged	0	No	more
V1622 — Right C-pillar Damaged	0	No	more
V1623 — Left D-pillar Damaged	0	No	more
V1624 — Right D-pillar Damaged	0	No	more
V1625 — Left Headlining Damaged	1	Yes	more
V1626 — Right Headlining Damaged	0	No	more
V1627 — Left Roof Structure Damaged	1	Yes	more
V1628 — Right Roof Structure Damaged	0	No	more
V1629 — Left T/Sun Roof Damaged	8	Not applicable	more
V1630 — Right T/Sun Roof Damaged	8	Not applicable	more
V1631 — Other Left Side Item Damaged	8	Not applicable	more
V1632 — Other Right Side Item Damaged	8	Not applicable	more
V1633 — Foot Controls Damaged	0	No	more
V1634 — Ignition Key Damaged	0	No	more
V1635 — Rear View Mirror Damaged	0	No	more
V1636 — Sunvisor/Fitting Damaged	0	No	more
V1637 — Windshield Molding Damaged	0	No	more
V1638 — Left A-pillar Damaged	1	Yes	more
V1639 — Right A-pillar Damaged	0	No	more
V1640 — Center Console Damaged	1	Yes	more

V1641 — Transmission Lever Damaged	0	No	more
V1642 — Horn/Spoke Shroud Damaged	0	No	more
V1643 — Upper Panel Damaged	1	Yes	more
V1644 — Mid Panel Damaged	1	Yes	more
V1645 — Lower Panel Damaged	4	Yes, occupant contact	more
V1646 — Ashtray Damaged	0	No	more
V1647 — Control Knob/Lever Damaged	1	Yes	more
V1648 — Glove Compartment Area Damaged	1	Yes	more
V1649 — Instruments Damaged	1	Yes	more
V1650 — Park Brake Release Damaged	0	No	more
V1651 — Park Brake Pedal Damaged	0	No	more
V1652 — A/C Or Upper Vent Damaged	0	No	more
V1653 — Heater Or A/C Duct Damaged	0	No	more
V1654 — Radio Damaged	0	No	more
V1655 — Other Item Damaged	8	Not applicable	more
V1656 — Rear Window Damaged	0	No	more
V1657 — Rear Window Header Damaged	0	No	more
V1658 — Vertical Console Damaged	8	Not applicable	more
V1659 — Roof Console Damaged	8	Not applicable	more

Case Vehicle

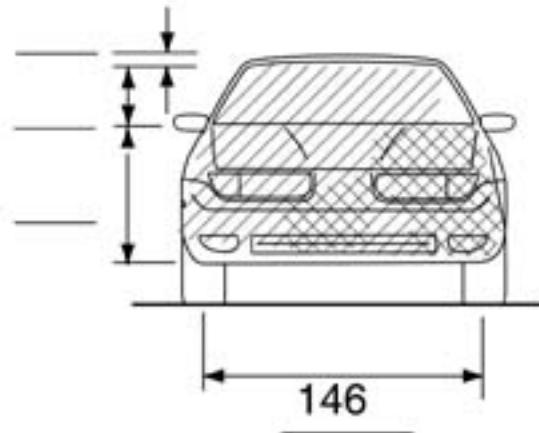
Seats

Variable Number and Name	Code Value	Code Description	Other Options
V1701 — Driver Front Seat Type	05	Bucket	more
V1702 — Passenger Front Seat Type	05	Bucket	more
V1703 — Driver Seat Mount Type	1	Standard	more
V1704 — Passenger Seat Mount Type	1	Standard	more
V1705 — Driver Swivel Mechanism Equipped	0	No	more
V1706 — Passenger Swivel Mechanism Equipped	0	No	more
V1707 — Driver Seat Original Equipment	1	Yes	more
V1708 — Passenger Seat Original Equipment	1	Yes	more
V1709 — Driver Seat/Rear Occupant Contact	8	Not applicable	more
V1710 — Passenger Seat/Rear Occupant Contact	8	Not applicable	more
V1711 — Driver Seat Damage	0	None	more
V1712 — Passenger Seat Damage	0	None	more
V1713 — Center Front Armrest Damaged	0	No	more
V1714 — Driver Seat Rotation	0	None apparent	more
V1715 — Passenger Seat Rotation	0	None apparent	more
V1716 — Driver Seat-back Type	3	Reclining	more
V1717 — Passenger Seat-back Type	3	Reclining	more
V1718 — Driver Seat-back Lock Type	1	Manual	more
V1719 — Passenger Seat-back Lock Type	1	Manual	more
V1720 — Driver Seat-back Lock Held	1	Yes	more

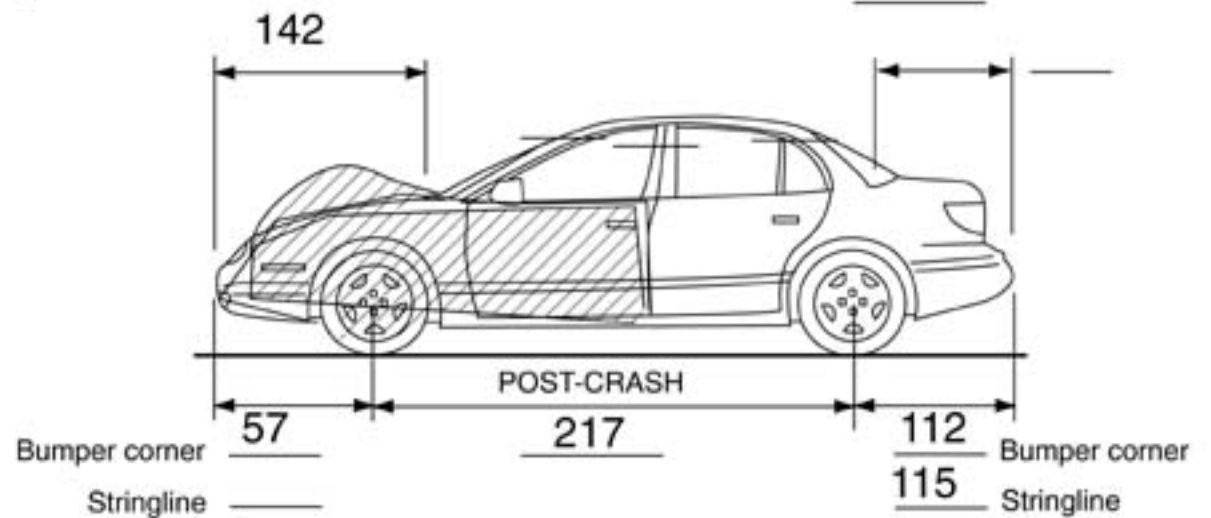
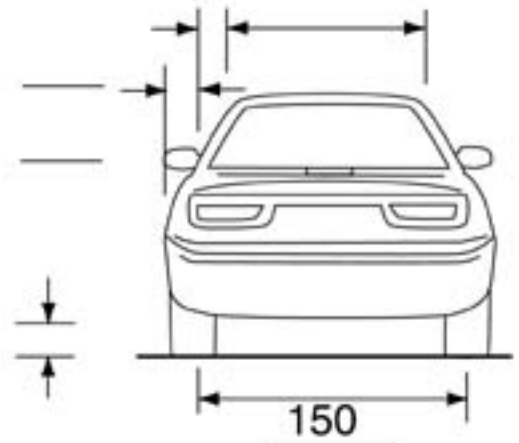
V1721 — Passenger Seat-back Lock Held	1	Yes	more
V1722 — Driver Recliner Mechanism Held	1	Yes	more
V1723 — Passenger Recliner Mechanism Held	1	Yes	more
V1724 — Driver Head Restraint Type	1	Adjustable	more
V1725 — Passenger Head Restraint Type	1	Adjustable	more
V1726 — Driver Head Rest Removed	0	No	more
V1727 — Passenger Head Rest Removed	0	No	more
V1728 — Driver Head Rest Adjustment	2	Down	more
V1729 — Passenger Head Rest Adjustment	2	Down	more
V1730 — Driver Head Rest Damage	0	None	more
V1731 — Passenger Head Rest Damage	0	None	more
V1732 — Driver Seat Adjustment Type	1	Manual	more
V1733 — Passenger Seat Adjustment Type	1	Manual	more
V1734 — Driver Seat Adjustment Provided	1	2-way	more
V1735 — Passenger Seat Adjustment Provided	1	2-way	more
V1736 — Driver Seat Adjuster Damage	0	None	more
V1737 — Passenger Seat Adjuster Damage	0	None	more
V1738 — Driver Seat Adjuster Separation	8	Not applicable	more
V1739 — Passenger Seat Adjuster Separation	8	Not applicable	more
V1740 — Driver Seat Pre-crash Position	2	Middle	more
V1741 — Passenger Seat Pre-crash Position	2	Middle	more
V1742 — Left Rear Seat Type	2	Folding	more
V1743 — Right Rear Seat Type	2	Folding	more
V1744 — Left Rear Seat Damaged	0	None	more

V1745 — Right Rear Seat Damaged	0	None	more
V1746 — Center Rear Armrest Damaged	8	Not applicable (No Center Armrest)	more
V1747 — Left Rear Seat-back Left Lock Equipped	1	Yes	more
V1748 — Right Rear Seat-back Left Lock Equipped	0	No	more
V1749 — Left Rear Seat-back Left Lock Held	1	Yes	more
V1750 — Right Rear Seat-back Left Lock Held	8	Not applicable	more
V1751 — Left Rear Seat-back Right Lock Equipped	0	No	more
V1752 — Right Rear Seat-back Right Lock Equipped	1	Yes	more
V1753 — Left Rear Seat-back Right Lock Held	8	Not applicable	more
V1754 — Right Rear Seat-back Right Lock Held	1	Yes	more
V1755 — Left 3rd Seat Equipped	0	No	more
V1756 — Right 3rd Seat Equipped	0	No	more
V1757 — Left 3rd Seat Backrest Damaged	8	Not applicable	more
V1758 — Right 3rd Seat Backrest Damaged	8	Not applicable	more
V1759 — Left 3rd Seat Cushion Damaged	8	Not applicable	more
V1760 — Right 3rd Seat Cushion Damaged	8	Not applicable	more
V1761 — Rear Head Restraints	0	Not Equipped (or removed)	more

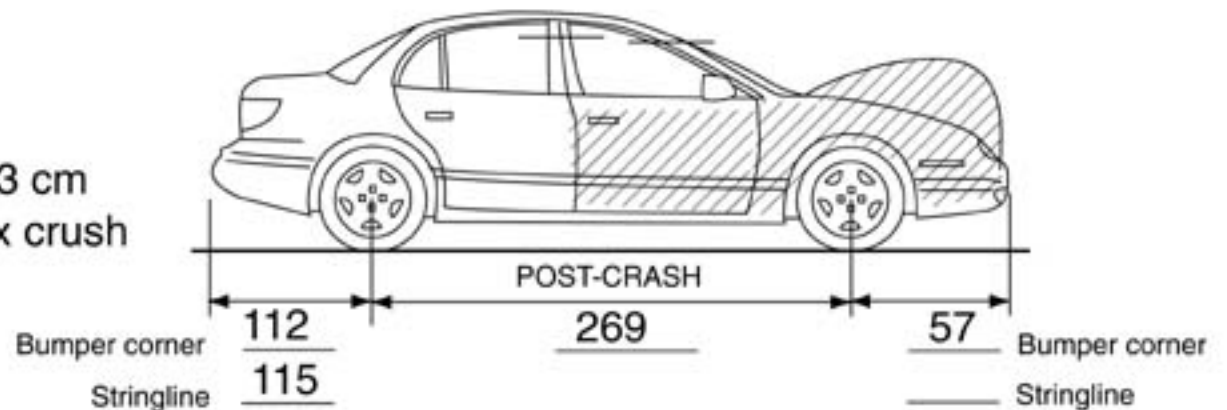
MEASUREMENTS IN CENTIMETERS



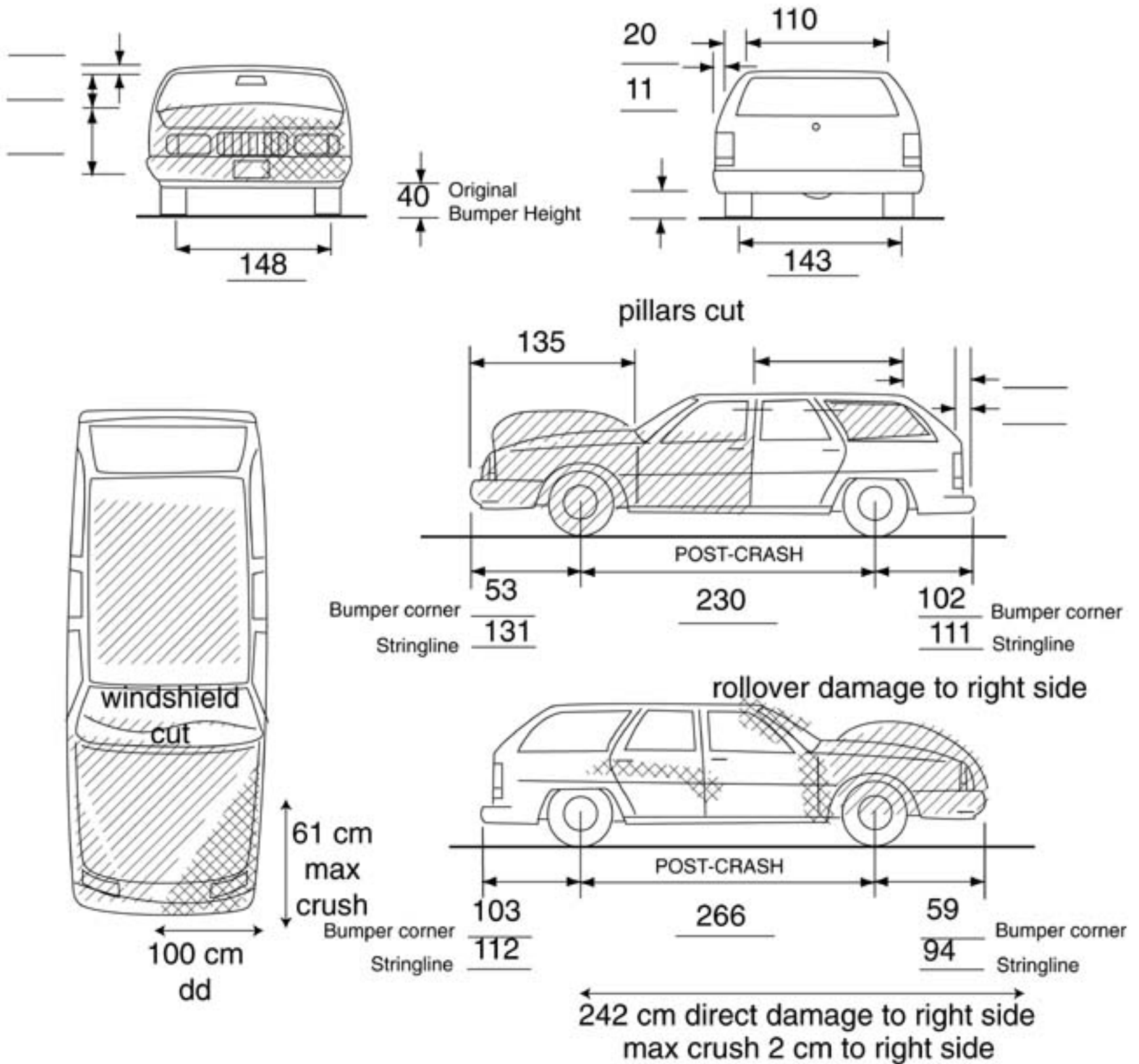
Original
Bumper Height



A-pillars cut and roof removed

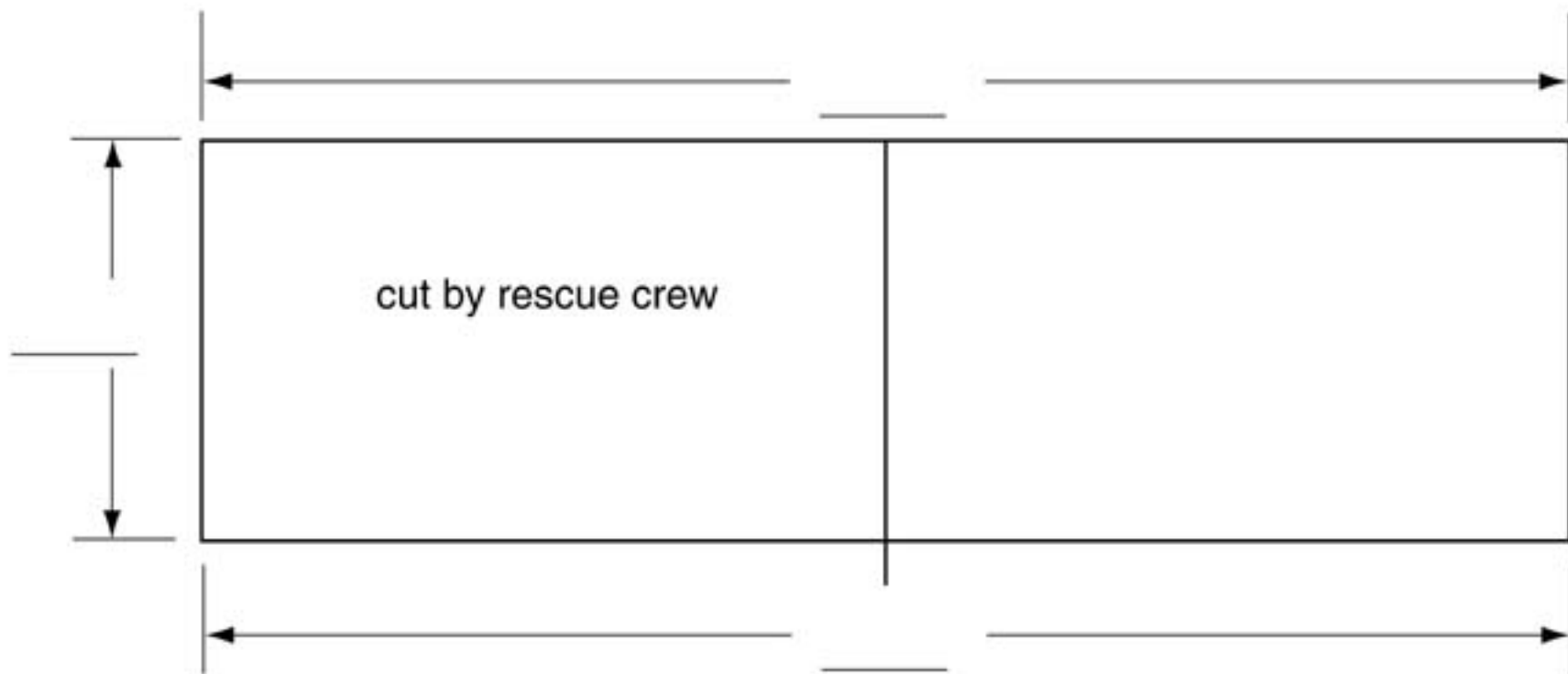


MEASUREMENTS IN CENTIMETERS



WINDSHIELD MARK ON CASE VEHICLE:

unknown



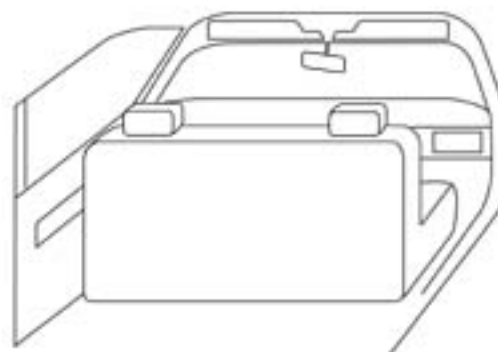
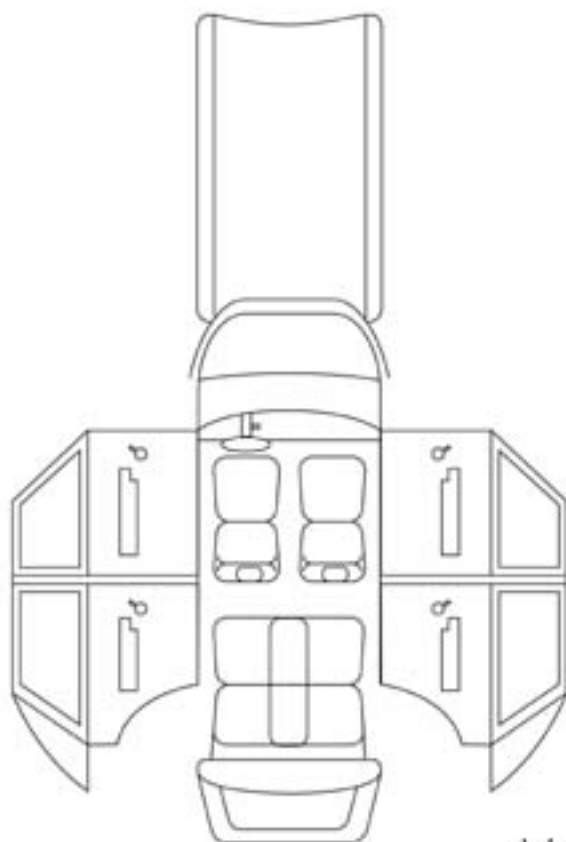
1 = Definitely 2 = Probably 3 = Possible

INTRUSION IT-1

Location of Intrusion	Intruded Component	(All Measurements Are in Centimeters)					Dominant Crush Direction
		Comparison Value	–	Intruded Value	=	Intrusion	
11	instrument panel	182	–	160	=	22	to rear
11	A-pillar					unknown	to rear
11	steering wheel	159	–	145	=	14	to rear
11	B-pillar	20	–	8	=	12	to right
11	door panel		–	8	=	8	to right
11	toe pan	224	–	198	=	26	to rear
11	knee bolster	187	–	168	=	19	to rear
11	floor pan		–		=	10	up
11	roof		–		=	3	down

OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	door panel	1	arm, torso	cracked, deformed	1
B	steering rim	1	chest	deformed, bent	1
C	toe pan	1	foot	deformed, intrusion	1
D	knee bolster	1	knee	scuff marks (left and right)	1
E	floor console	1	leg	cracked	1
F	door trim	1	hip/thigh	damage, intrusion	1
G	airbag	1	face	blood	1
H	door hardware	1	arm	damage	1
I					



dr belt adjusted to full up position

B = steering wheel rim (deformed, bent)

G = airbag (blood)

H = door hardware (damage)

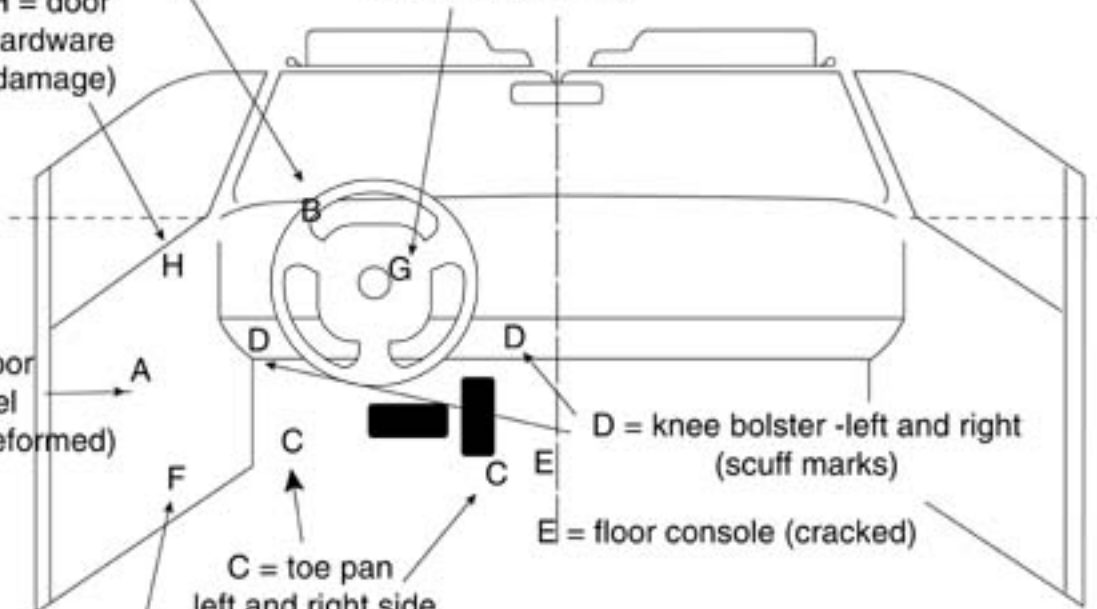
A = door panel (cracked, deformed)

C = toe pan left and right side (deformed, intrusion)

F = door trim lower (damage, intrusion)

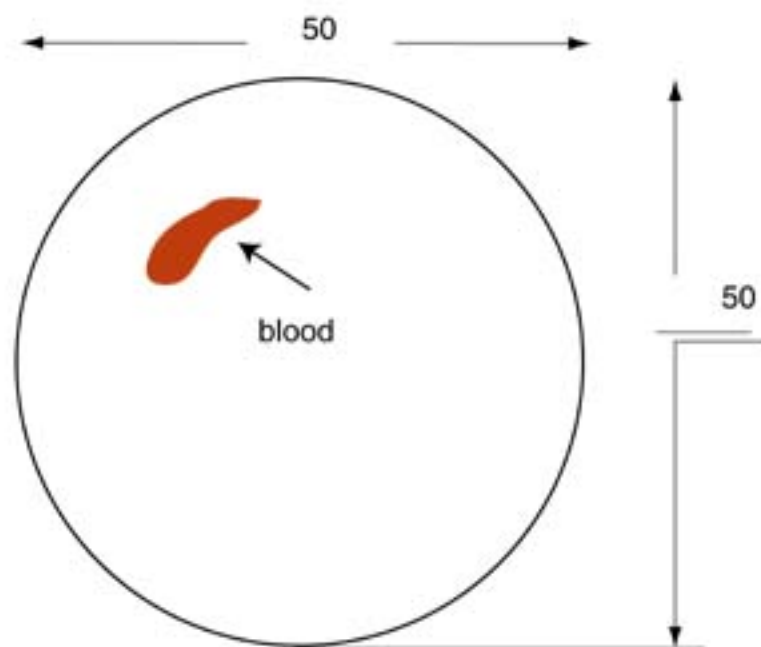
D = knee bolster -left and right (scuff marks)

E = floor console (cracked)



Driver Airbag

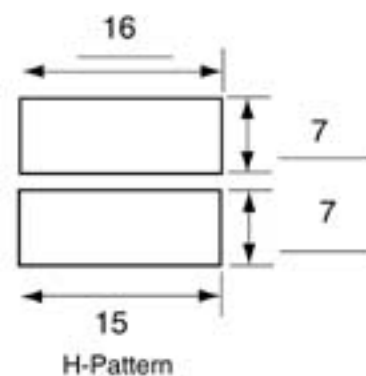
AIRBAG NUMBER ON DRIVER SIDE:



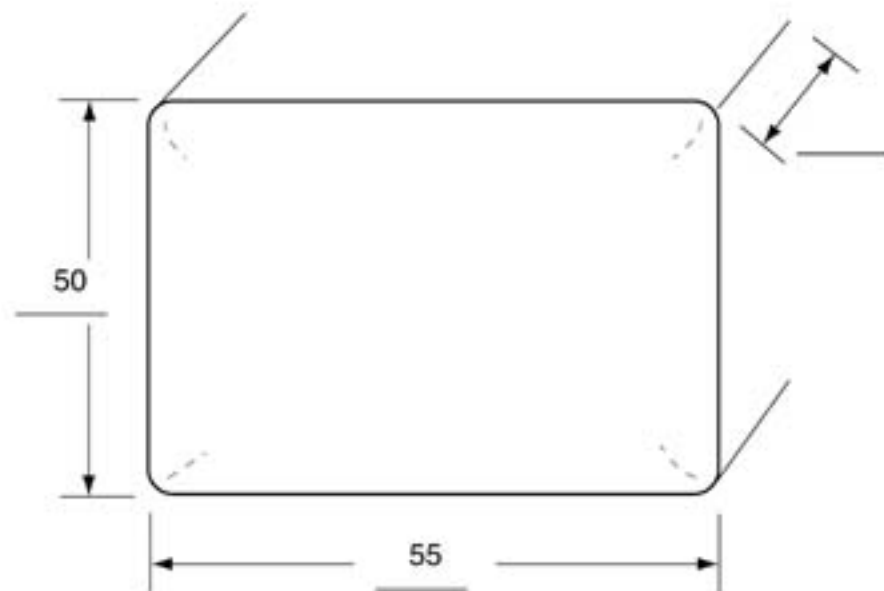
Vents: ☒ Y ☐ N
if yes, how many: 2

Tethers: ☒ Y ☐ N
if yes, how many: 1

Driver Airbag Doors



Passenger Airbag

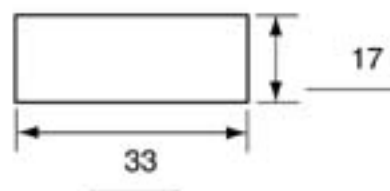


Vents: ☒ Y ☐ N
if yes, how many: 2

Tethers: ☐ Y ☒ N
if yes, how many:

Passenger Airbag Doors

Single Door



235-00: Occupant # 1; Injury # 1

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	01	Injury #1	more
V2102 — 1st Prob Contact Area	87	Air cushion skin "airbag"	more
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	more
V2104 — Primary OIC -body Region	06	Face	more
V2105 — Primary OIC -aspect	03	Central	more
V2106 — Primary OIC -lesion	18	Rupture	more
V2107 — Primary OIC -system/Organ	01	Arteries	more
V2108 — Primary OIC -severity	1	Minor	more
V2109 — Primary OIC	FCRA1	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

235-00: Occupant # 1; Injury # 2

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	02	Injury #2	more
V2102 — 1st Prob Contact Area	65	Steering wheel	more
V2103 — 2nd Prob Contact Area	87	Air cushion skin "airbag"	more
V2104 — Primary OIC -body Region	03	Chest	more
V2105 — Primary OIC -aspect	03	Central	more
V2106 — Primary OIC -lesion	03	Contusion	more
V2107 — Primary OIC -system/Organ	08	Heart	more
V2108 — Primary OIC -severity	1	Minor	more
V2109 — Primary OIC	CCCH1	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

235-00: Occupant # 1; Injury # 3

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	03	Injury #3	more
V2102 — 1st Prob Contact Area	65	Steering wheel	more
V2103 — 2nd Prob Contact Area	87	Air cushion skin "airbag"	more
V2104 — Primary OIC -body Region	03	Chest	more
V2105 — Primary OIC -aspect	18	Right	more
V2106 — Primary OIC -lesion	06	Fracture	more
V2107 — Primary OIC -system/Organ	19	Skeletal	more
V2108 — Primary OIC -severity	2	Moderate	more
V2109 — Primary OIC	CRFS2	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

235-00: Occupant # 1; Injury # 4

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	04	Injury #4	more
V2102 — 1st Prob Contact Area	65	Steering wheel	more
V2103 — 2nd Prob Contact Area	87	Air cushion skin "airbag"	more
V2104 — Primary OIC -body Region	03	Chest	more
V2105 — Primary OIC -aspect	03	Central	more
V2106 — Primary OIC -lesion	06	Fracture	more
V2107 — Primary OIC -system/Organ	19	Skeletal	more
V2108 — Primary OIC -severity	2	Moderate	more
V2109 — Primary OIC	CCFS2	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

235-00: Occupant # 1; Injury # 5

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	05	Injury #5	more
V2102 — 1st Prob Contact Area	55	Middle instrument panel	more
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	more
V2104 — Primary OIC -body Region	23	Wrist/hand	more
V2105 — Primary OIC -aspect	18	Right	more
V2106 — Primary OIC -lesion	12	Laceration	more
V2107 — Primary OIC -system/Organ	09	Integumentary	more
V2108 — Primary OIC -severity	1	Minor	more
V2109 — Primary OIC	WRLI1	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

235-00: Occupant # 1; Injury # 6

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	06	Injury #6	more
V2102 — 1st Prob Contact Area	55	Middle instrument panel	more
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	more
V2104 — Primary OIC -body Region	23	Wrist/hand	more
V2105 — Primary OIC -aspect	18	Right	more
V2106 — Primary OIC -lesion	06	Fracture	more
V2107 — Primary OIC -system/Organ	19	Skeletal	more
V2108 — Primary OIC -severity	1	Minor	more
V2109 — Primary OIC	WRFS1	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

235-00: Occupant # 1; Injury # 7

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	07	Injury #7	more
V2102 — 1st Prob Contact Area	48	Knee restraint	more
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	more
V2104 — Primary OIC -body Region	12	Leg (lower)	more
V2105 — Primary OIC -aspect	12	Left	more
V2106 — Primary OIC -lesion	12	Laceration	more
V2107 — Primary OIC -system/Organ	09	Integumentary	more
V2108 — Primary OIC -severity	1	Minor	more
V2109 — Primary OIC	LLLLI1	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

235-00: Occupant # 1; Injury # 8

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	08	Injury #8	more
V2102 — 1st Prob Contact Area	40	Floor	more
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	more
V2104 — Primary OIC -body Region	17	Ankle/foot	more
V2105 — Primary OIC -aspect	12	Left	more
V2106 — Primary OIC -lesion	06	Fracture	more
V2107 — Primary OIC -system/Organ	19	Skeletal	more
V2108 — Primary OIC -severity	2	Moderate	more
V2109 — Primary OIC	QLFS2	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

235-00: Occupant # 1; Injury # 9

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	09	Injury #9	more
V2102 — 1st Prob Contact Area	40	Floor	more
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	more
V2104 — Primary OIC -body Region	17	Ankle/foot	more
V2105 — Primary OIC -aspect	18	Right	more
V2106 — Primary OIC -lesion	06	Fracture	more
V2107 — Primary OIC -system/Organ	19	Skeletal	more
V2108 — Primary OIC -severity	2	Moderate	more
V2109 — Primary OIC	QRFS2	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

235-00: Occupant # 1

Variable Number and Name	Code Value	Code Description	Other Options
V2001 — Occupant Number	01	Occupant #1	more
V2002 — Occupant Role At 1st Impact	1	Motor vehicle driver	more
V2003 — Occupant Position -row	1	1st row	more
V2004 — Occupant Position -lateral	1	Left	more
V2005 — Occupant Position -posture	10	Sitting on seat	more
V2006 — Occupant Age In Years	34	—	—
V2007 — Occupant Age In Months	25	25 months or older	more
V2008 — Occupant Mass	072 kg	—	—
V2009 — Occupant Height	173 cm	—	—
V2010 — Occupant Sex	1	Male	more
V2011 — Occupant Treatment/Mortality	04	Hospitalized over 24 hrs or for significant treatment	more
V2012 — Injury Severity Score	09	ISS 9	more
V2013 — Non-impact Med Condition	0	None	more
V2014 — Police Injury Severity	7	Non-fatal Injury, severity unknown	more
V2015 — Active Restraint System	3	Both lap belt and shoulder harness	more
V2016 — Active Restraint Usage	0	None (available but not used)	more
V2017 — Passive Restraint System	1	Air bag installed	more
V2018 — Passive Restraint Usage	2	Air bag deployed	more
V2019 — Child Seat Type	88	Not applicable (adult or older child)	more
V2020 — Occupant Ejection Degree	0	None	more
V2021 — Occupant Ejection Area	98	Not applicable (not ejected)	more

V2022 — Highest OIC Severity	2	Moderate	more
V2023 — Head Restraint Available	1	Equipped	more
V2024 — Occupant Eyewear	0	None	more
V2025 — Source of Occupant Info	0	Interview	more

















































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